

APPENDIX 4: THE GRAPHICAL PRINT MANAGER

An updated graphical interface to the GCCS Printer Administration Application is available in versions of the EM_PRINTER segment delivered with a version number of 2.1.7 or higher. Except for the user interface, the capabilities of the Graphical Print Manager are identical to those in the character-based version (versions 2.1.6 and lower). The following is an update of the GCCS Printer Administrator User's Guide (PART II of the GCCS Printer Conops) that describes the steps required to set up and remove printers using the Graphical Print Manager.

ADDING A PRINTER TO A PRINT SERVER

- 1) Set up the printer according to the manufacturer's instructions. For Newsprint printers, this includes completing the full Newsprint software and hardware installation. HP printers must be set up to receive serial or parallel input, ASCII and Postscript printers will likely require no special setup.
- 2) Plug the printer into the appropriate port on the GCCS system that will be the print server. Serial printers require a 2-3 swap (null modem) if connected to a serial port.
- 3) Run the Graphical Printer Admin Tool on the workstation or system that is the print server.
- 4) Select File -> New from the Menu Bar.
- 5) Provide a printer name. Names must be 14 characters or less and may not include special characters (dash, underscore, and numerals are allowed).
- 6) Select the triangle to the right of the printer type field. Select the printer type from the pop-up selection list. Valid GCCS printer types are HPCL, ASCII, Postscript, and Newsprint.
- 7) Select the triangle to the right of the printer port field. Select the printer port from the pop-up selection list. Valid ports are Serial A, Serial B, and Parallel.
- 8) Provide a printer description. This can be the building, room number, command name, or whatever will help identify this printer to a user. Descriptions can be any length, but for the sake of reasonable-looking printer display lists, it is recommended that descriptions be limited to less than 40 characters.
- 9) Designate whether this printer will be available to the rest of the network using the toggle button.
- 10) The Graphical Printer Administration software will make the appropriate system calls to install the printer on the server and then will add an entry to the GCCS printer table for this printer. Printer table entries are of the following format:

printer name;host name;printer type;printer description;available on network flag;O/S;color status

11) Status of the printer addition will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output.

Note: If you choose to set up the printer as a network-available printer, the above steps include the following separate steps that were required in the character-based printer admin tool:

Option B: Make the Print Server Able to Accept Network Print Jobs

Option C: Make the Printer Available to Other Network Clients

ADDING A REMOTE PRINTER TO THE NETWORK

A remote printer is defined as one that exists on another LAN or LAN segment. The GCCS Printer Administration software allows you to make printer table entries for printers that are not local, PROVIDED THAT YOU ENSURE THAT THE LOCAL PRINT CLIENT AND THE REMOTE PRINT SERVER CAN ACCESS EACH OTHER OVER THE NETWORK.

1) Responsibility for setting up the remote printer will belong to the system administrators at the remote location. In order to make the remote printer available to your local clients, you will need to know the hostname, IP address, printer name, and printer type. The remote print server hostname and IP address must be added to the /etc/hosts files for each of your network clients. The other information is required by the GCCS Printer Administration Application.

2) Run the Graphical Printer Admin Tool on any GCCS workstation or system on your network.

3) Select File -> New Remote from the Menu Bar.

4) Provide a printer name. Names must be 14 characters or less and may not include special characters (dash, underscore, and numerals are allowed). The printer name must exactly match the name of the remote printer.

5) Select the triangle to the right of the printer type field. Select the printer type from the pop-up selection list. Valid GCCS printer types are HPCL, ASCII, Postscript, and Newsprint.

6) Provide the remote printer's hostname. It must match exactly and must also be added to the local client's /etc/hosts file.

7) Provide a printer description. This can be the building, room number, command name, or whatever will help identify this printer to a user. Descriptions can be any length, but for the sake of reasonable-looking printer display lists, it is recommended that descriptions be limited to less than 40 characters.

8) Designate whether this printer will be available to the rest of the network using the toggle button.

9) The GCCS Printer Administration Application will add an entry to the GCCS printer table for

this printer. Printer table entries are of the following format:

printer name;host name;printer type;printer description;available on network flag;O/S;color status

10) Status of the printer addition will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output.

ADDING A NON-GCCS PRINTER TO THE NETWORK

Non-GCCS printers are printers that are not of the four types described on the first page of the GCCS printer conops (Newsprint, Postscript, HPCL, and ASCII). Particular examples are IP-addressable network printers and specialized print management devices such as Fastport, etc. The main difference between these printers and standard GCCS printers is that the GCCS Printer Administration Application does not provide any assistance in setting up these types of printers. However, management of client access to non-GCCS printers is supported to the same extent as for standard GCCS printers.

- 1) Responsibility for setting up the non-GCCS printer will belong to the system administrator and will be done in accordance with the manufacturer's instructions. Once the printer is set up, the only purpose of the GCCS Printer Administration Application is to make an entry in the printer table and manage client access upon system reboot.
- 2) Run the Graphical Printer Admin Tool on any GCCS workstation or system on your network.
- 3) Select File -> New Remote from the Menu Bar.
- 4) Provide a printer name. Names must be 14 characters or less and may not include special characters (dash, underscore, and numerals are allowed). The printer name must exactly match the name of the remote printer.
- 5) Select the triangle to the right of the printer type field. Select the printer type from the pop-up selection list. Valid GCCS printer types are HPCL, ASCII, Postscript, and Newsprint. If the non-GCCS printer does not fit any of these categories, select "ASCII".
- 6) Provide the remote printer's hostname. It must match exactly and must also be added to the local client's /etc/hosts file.
- 7) Provide a printer description. This can be the building, room number, command name, or whatever will help identify this printer to a user. Descriptions can be any length, but for the sake of reasonable-looking printer display lists, it is recommended that descriptions be limited to less than 40 characters.
- 8) Designate whether this printer will be available to the rest of the network using the toggle button.

9) The GCCS Printer Administration Application will add an entry to the GCCS printer table for this printer. Printer table entries are of the following format:

printer name;host name;printer type;printer description;available on network flag;O/S;color status

10) Status of the printer addition will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output.

UPDATING PRINT CLIENTS ON THE NETWORK

1) The Graphical Printer Admin Tool includes an script that runs on system boot-up that brings the system into synchronization with the GCCS printer table. Printers that are installed on a client but do not have a corresponding entry in the GCCS printer table will be de-installed. Printers that are not installed on the client but exist in the GCCS printer table (and have their "available to network flag" set to "True") are installed. **PRINTERS THAT WERE NOT ADDED USING THE GCCS PRINTER ADMIN TOOLS WILL NOT BE AFFECTED BY THIS SCRIPT.**

2) The same script can be run by selecting Option -> Reinitialize Print System from the menu bar.

3) Status of the printer re-initialization will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output.

REMOVING A PRINTER FROM THE NETWORK or CHANGING A PRINTER DESCRIPTION

1) Highlight by clicking with the mouse on the printer to be removed from the network or modified.

2) Select File -> Modify from the menu bar.

3) Type in the new description and/or click on the toggle button to remove the printer.

4) Select "OK".

5) Status of the printer modification will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output. Also, the printer list in the top window will update to reflect the changes.

REMOVING A PRINTER FROM A SERVER

1) Highlight by clicking with the mouse on the printer to be removed from the network or

modified.

2) Select File ->Delete from the menu bar.

3) Status of the printer deletion will be displayed in the lower window of the Graphical Printer Admin Tool. You may need to scroll using the scroll bar to the right of the window in order to see all of the output. Also, the printer list in the top window will update to reflect the changes.